AUTHOR INDEX

Amenomiya, Y.
Methanol synthesis from CO_2 + H_2.II. Copper-based binary and ternary catalysts 57
Arai, H., see Ishihara, T. 225
Astier, M. see Quinson, J.F. 123
Baiker, A., see Vultier, R. 167
Balkenende, A.R.
--, De Bokx, P.K. and Geus, J.W.
Methane formation from methanol on Ni/SiO_2, Ni/Al_2O_3 and Ni/TiO_2 catalysts 47
Beer, V.H.J. de, see Vissers, J.P.R. 21
Beguin, B., see Denise, B. 353
Benziger, J.B., see Breckner, E.M. 277
Bokx, P.K. de, see Balkenende, A.R. 47
Bokx, P.K. de, see De Bokx, P.K. 33
Bond, G.C., see Hughes, I.S.C. 303
Bonne, R.L.C., see De Bokx, P.K. 33
Bonnier, J-M.
--, Damon, J-P. and Masson, J.
Raney nickel as a selective catalyst for aldehyde reduction in the presence of ketones 181
Bowker, M., see Vandervell, H.D. 151
Breckner, E.M.
--, Sundaresan, S. and Benziger, J.B.
Solid electrolyte potentiometry study of butene oxidation over vanadium phosphate catalysts 277
Brinen, J.S., see Daly, F.P. 91
Brun, M., see Quinson, J.F. 123
Caceres, C., see Lopez Agudo, A. 185
Cherifi, O., see Denise, B. 353
Chiche, B.
--, Finiels, A., Gauthier, C. and Geneste, P.
The effect of structure on reactivity in zeolite catalyzed acylation of aromatic compounds: a $\rho - \sigma^+$ relationship 365
Chinchen, G.C.
--, Denny, P.J., Parker, D.G., Spencer, M.S. and Whan, D.A.
Mechanism of methanol synthesis from $CO_2/CO/H_2$ mixtures over copper/zinc oxide/alumina catalysts: use of ^{14}C-labelled reactants 333
Chuang, K.T.
--, Quaiattini, R.J., Thatcher, D.R.P. and Puissant, L.J.
Development of a wetproofed catalyst recombiner for removal of airborne tritium 215
Comelli, R.A.
-- and Figoli, N.S.
The effect of adding water to the feed on the transformation of methanol into hydrocarbons on an amorphous silica-alumina catalyst 325
Cordischi, D.
--, Vielhaber, B. and Knözinger, H.
Vanadyl tetraphenyl porphyrin adsorption on oxides and on Mo/Al_2O_3 catalysts: an ESR study 265
Daly, F.P.
-- and Brinen, J.S.
Reaction of carbon supports with ammonia. Effect on molybdenum/carbon interaction 91
Damon, J-P., see Bonnier, J-M. 181
De Beer, V.H.J., see Vissers, J.P.R. 21
De Bokx, P.K.
--, Bonne, R.L.C. and Geus, J.W.
Strong metal-support interaction in Ni/TiO_2 catalysts: the origin of TiO_x moieties on the surface of nickel particles 33
De Bokx, P.K., see Balkenende, A.R. 47
Denise, B.
--, Sneeden, R.P.A., Beguin, B. and Cherifi, O.
Supported copper catalysts in the synthesis of methanol: N_2O-titrations 353
Denny, P.J., see Chinchen, G.C. 333
Dianis, W.P.
Characterization of metal sulfide Fischer-Tropsch catalysts by temperature programmed desorption 99
Eguchi, K., see Ishihara, T. 225
Fierro, J.L.G., see Lopez Agudo, A. 185
Figoli, N.S., see Comelli, R.A. 325
Finiels, A., see Chiche, B. 365
Funaki, R., see Hamada, H. 177
Gauthier, C., see Chiche, B. 365
Geneste, P., see Chiche, B. 365
Geus, J.W., see Balkenende, A.R. 47
Geus, J.W., see De Bokx, P.K. 33
Hamada, H.
--, Funaki, R., Kuwahara, Y., Kintaichi,Y., Wakabayashi, K. and Ito, T.
Systematic preparation of supported Rh catalysts having desired metal particle size by using silica supports with controlled pore structure 177
Hammarström, L.G., see Krause, A.O.I. 313
Hoser, H.
--, Innocenti, A., Riva, A. and Trifiró, F.

Huang, Y.-J.
-- and Schwarz, J.A.
The effect of catalyst preparation on catalytic activity: I. The catalytic activity of Ni/Al_2O_3 catalysts by wet impregnation 239
Hughes, I.S.C.
--, Newman, J.O.H. and Bond, G.C.
The characterisation of unsupported iron and manganese-promoted iron catalysts by X-ray photoelectron spectroscopy and temperature-programmed reduction 303
Imanaka, T., see Nitta, Y. 141
Innocenti, A., see Hoser, H. 11
Ishihara, T.
--, Eguchi, K. and Arai, H.
Hydrogenation of carbon monoxide over SiO_2-supported Fe-Co, Co-Ni and Ni-Fe bimetallic catalysts 225
Ito, T., see Hamada, H. 177
Jovanovic, N.N.
--, and Stankovic, M.V.
Effect of catalyst preparation on selectivity of high temperature propane oxidation to CO and H_2 3
Kawabe, M., see Nitta, Y. 141
Kintaichi, Y., see Hamada, H. 177
Knözinger, H., see Cordischi, D. 265
Krause, A.O.I.
-- and Hammarström, L.G.
Etherification of isoamylenes with methanol 313
Kürschner, U.
--, Parlitz, B., Schreier, E., Ohlmann, G. and Völter, J.
Effect of thermal treatments on shape selectivity and acidity of ZSM-5 type zeolite catalysts 159
Kuwahara, Y., see Hamada, H. 177
Laine, J., see Lopez Agudo, A. 185
Lensing, T.J., see Vissers, J.P.R. 21
Lieske, H.
--, Sárkány, A. and Völter, J.
Hydrocarbon adsorption and coke formation on Pt/Al_2O_3 and $Pt-Sn/Al_2O_3$ catalysts 69
Lopez Agudo, A.
--, Fierro, J.L.G., Caceres, C., Laine, J. and Severino, F.
Changes induced by calcination temperature in hydrodesulfurization activity of $NiCo-Mo/Al_2O_3$ catalysts 185
Magnoux, P., see Malakani, K. 371
Malakani, K.
Magnoux, P. and Perot, G.
Hydrodenitrogenation of 7,8-benzoquinoline over nickel molybdenum alumina 371
Masson, J., see Bonnier, J-M. 181
Musso, J.C.
-- and Parera, J.M.
Adsorption and spillover of hydrogen on Al_2O_3 and Pt/Al_2O_3 81
Newman, J.O.H., see Hughes, I.S.C. 303
Nitta, Y.
--, Kawabe, M. and Imanaka, T.
Enantioselectivity of tartaric acid-modified $Ni-Al_2O_3$ catalysts 141
Ohlmann, G., see Kürschner, U. 159
Parera, J.M., see Musso, J.C. 81
Parker, D.G., see Chinchen, G.C. 333
Parlitz, B., see Kürschner, U. 159
Perot, G., see Malakani, K. 371
Prins, R., see Vissers, J.P.R. 21
Puissant, L.J., see Chuang, K.T. 215
Quaiattini, R.J., see Chuang, K.T. 215
Quinson, J.F.
--, Astier, M. and Brun, M.
Determination of surface areas by thermoporometry 123
Riva, A., see Hoser, H. 11
Sárkány, A., see Lieske, H. 69
Völter, J., see Lieske, H. 69
Schoenmaker-Stolk, M.C.
--, Verwijs, J.W. and Scholten, J.J.F.
The catalytic hydrogenation of benzene over supported metal catalysts. III. Gas-phase hydrogenation of benzene over silica-supported Ru-Cu catalysts 339
Scholten, J.J.F., see Schoenmaker-Stolk, M.C. 339
Schreier, E., see Kürschner, U. 159
Schwarz, J.A., see Huang, Y.-J. 239
Huang, Y.-J.
-- and Schwarz, J.A.
The effect of catalyst preparation on catalytic activity: II. The design of Ni/Al_2O_3 catalysts prepared by wet impregnation 255
Schwarz, J.A., see Huang, Y.-J. 255
Severino, F., see Lopez Agudo, A. 185
Shinohara, H
Gas-phase acetoxylation of 1,3-butadiene over palladium catalysts. Part 3: effects of addition of alkali metal salts to Pd-Sb-V catalyst and catalytic properties of Pd-Sb-V-CsCl-KOAc catalyst 203
Sneeden, R.P.A., see Denise, B. 353
Spencer, M.S., see Chinchen, G.C. 333
Stankovic, M.V., see Jovanovic, N.N. 3
Sundaresan, S., see Breckner, E.M. 277
Thatcher, D.R.P., see Chuang, K.T. 215
Trifirò, F. see Hoser, H. 11
Vandervell, H.D.
-- and Bowker, M.
The methanation reaction on a nickel catalyst: CO, H_2 competition for dissociated oxygen 151

Verwijs, J.W., see Schoenmaker-Stolk, M.C. 339
Vielhaber, B., see Cordischi, D. 265
Vissers, J.P.R.
--, Lensing, T.J., De Beer, V.H.J. and Prins, R.
Carbon black composites as carrier materials for sulphide catalysts 21
Völter, J., see Kürschner, U. 159
Vultier, R.
--, Baiker, A. and Wokaun, A.
Copper catalyzed amination of 1,6-hexanediol 167
Wakabayashi, K., see Hamada, H. 177
Whan, D.A., see Chinchen, G.C. 333
Wokaun, A., see Vultier, R. 167
Zaidi, A.H.
Stability of Pd-C phase in the oxidation of ethylene over palladium catalysts 131

SUBJECT INDEX

Acetoxylation
Gas-phase acetoxylation of 1,3-butadiene over palladium catalysts. Part 3: Effects of addition of alkali metal salts to Pd-Sb-V catalyst and catalytic properties of Pd-Sb-V-CsCl-KOAc catalyst 203

Acidity
Effect of thermal treatments on shape selectivity and acidity of ZSM-5 type zeolite catalysts 159

Acylation
The effect of structure on reactivity in zeolite catalyzed acylation of aromatic compounds: a $\rho - \sigma^+$ relationship 365

Adorption
The effect of catalyst preparation on catalytic activity: I. The catalytic activity of Ni/Al_2O_3 catalysts prepared by wet impregnation 239

Adsorption
Catalytic activity of HZSM-5 zeolite in 1-butene conversion. Diffusive reflectance-IR spectroscopic study in a flow system 11

Adsorption
Strong metal-support interaction in Ni/TiO_2 catalysts: the origin of TiO_x moieties on the surface of nickel particles 33

Adsorption
Hydrocarbon adsorption and coke formation on Pt/Al_2O_3 and $Pt-Sn/Al_2O_3$ catalysts 69

Adsorption
Adsorption and spillover of hydrogen on Al_2O_3 and Pt/Al_2O_3 81

Adsorption
Reaction of carbon supports with ammonia. Effect on molybdenum-carbon interaction 91

Adsorption
Characterization of metal sulfide Fischer-Tropsch catalysts by temperature programmed desorption 99

Adsorption
The methanation reaction on a nickel catalyst: CO, H_2 competition for dissociated oxygen 151

Adsorption
Vanadyl tetraphenyl porphyrin adsorption on oxides and on Mo/Al_2O_3 catalysts: an ESR study 265

Ageing
Stability of Pd-C phase in the oxidation of ethylene over palladium catalysts 131

Ageing
Solid electrolyte potentiometry study of butene oxidation over vanadium phosphate catalysts 277

Ageing
Etherification of isoamylenes with methanol 313

Aldehyde reduction
Raney nickel as a selective catalyst for aldehyde reduction in the presence of ketones 181

Alkali metal salts
Gas-phase acetoxylation of 1,3-butadiene over palladium catalysts. Part 3: Effects of addition of alkali metal salts to Pd-Sb-V catalyst and catalytic properties of Pd-Sb-V-CsCl-KOAc catalyst 203

Alumina
Adsorption and spillover of hydrogen on Al_2O_3 and Pt/Al_2O_3 81

Alumina
Vanadyl tetraphenyl porphyrin adsorption on oxides and on Mo/Al_2O_3 catalysts: an ESR study 265

Amination
Copper catalyzed amination of 1,6-hexanediol 167

Aromatic compound acylation
The effect of structure on reactivity in zeolite catalyzed acylation of aromatic compounds: a $\rho - \sigma^+$ relationship 365

Benzene hydrogenation
The catalytic hydrogenation of benzene over supported metal catalysts. III. Gas-phase hydrogenation of benzene over silica-supported Ru-Cu catalysts 339

Benzoquinoline hydrodenitrogenation
Hydrodenitrogenation of 7,8-benzoquinoline over nickel molybdenum alumina 371

Butadiene acetoxylation
Gas-phase acetoxylation of 1,3-butadiene over palladium catalysts. Part 3: Effects of addition of alkali metal salts to Pd-Sb-V catalyst and catalytic properties of Pd-Sb-V-CsCl-KOAc catalyst 203
Butene conversion
Catalytic activity of HZSM-5 zeolite in 1-butene conversion. Diffusive reflectance-IR spectroscopic study in a flow system 11
Butene oxidation
Solid electrolyte potentiometry study of butene oxidation over vanadium phosphate catalysts 277
Calcination temperature effect
Changes induced by calcination temperature in hydrodesulfurization activity of NiCo-Mo/Al_2O_3 catalysts 185
Carbon dioxide hydrogenation
Methanol synthesis from CO_2 + H_2. II. Copper-based binary and ternary catalysts 57
Carbon monoxide adsorption
Strong metal-support interaction in Ni/TiO_2 catalysts: the origin of TiO_x moieties on the surface of nickel particles 33
Carbon monoxide hydrogenation
Methane formation from methanol on Ni/SiO_2, Ni/Al_2O_3 and Ni/TiO_2 catalysts 47
Carbon monoxide hydrogenation
Characterization of metal sulfide Fischer-Tropsch catalysts by temperature programmed desorption 99
Carbon monoxide hydrogenation
The methanation reaction on a nickel catalyst: CO, H_2 competition for dissociated oxygen 151
Carbon monoxide hydrogenation
Hydrogenation of carbon monoxide over SiO_2-supported Fe-Co, Co-Ni and Ni-Fe bimetallic catalysts 225
Carbon monoxide hydrogenation
The effect of catalyst preparation on catalytic activity: I. The catalytic activity of Ni/Al_2O_3 catalysts prepared by wet impregnation 239
Carbon monoxide hydrogenation
The effect of catalyst preparation on catalytic activity: II. The design of Ni/Al_2O_3 catalysts prepared by wet impregnation 255
Carbon monoxide hydrogenation
The characterisation of unsupported iron and manganese-promoted iron catalysts by X-ray photoelectron spectroscopy and temperature-programmed reduction 303
Carbon-14 tracer
Mechanism of methanol synthesis from $CO_2/CO/H_2$ mixtures over copper/zinc oxide/ alumina catalysts: use of ^{14}C-labelled reactants 333
Catalyst carrier preparation
Carbon black composites as carrier materials for sulphide catalysts 21
Catalyst characterization
Strong metal-support interaction in Ni/TiO_2 catalysts: the origin of TiO_x moieties on the surface of nickel particles 33
Catalyst characterization
Reaction of carbon supports with ammonia. Effect on molybdenum-carbon interaction 91
Catalyst characterization
Characterization of metal sulfide Fischer-Tropsch catalysts by temperature programmed desorption 99
Catalyst characterization
Determination of surface areas by thermoporometry 123
Catalyst characterization
Enantioselectivity of tartaric acid-modified Ni-Al_2O_3 catalysts 141
Catalyst characterization
Effect of thermal treatments on shape selectivity and acidity of ZSM-5 type zeolite catalysts 159
Catalyst characterization
Development of a wetproofed catalyst recombiner for removal of airborne tritium 215
Catalyst characterization
The effect of catalyst preparation on catalytic activity: I. The catalytic activity of Ni/Al_2O_3

catalysts prepared by wet impregnation 239
Catalyst characterization
The effect of catalyst preparation on catalytic activity: II. The design of Ni/Al_2O_3 catalysts prepared by wet impregnation 255
Catalyst characterization
Solid electrolyte potentiometry study of butene oxidation over vanadium phosphate catalysts 277
Catalyst characterization
The characterisation of unsupported iron and manganese-promoted iron catalysts by X-ray photoelectron spectroscopy and temperature-programmed reduction 303
Catalyst characterization
The catalytic hydrogenation of benzene over supported metal catalysts. III. Gas-phase hydrogenation of benzene over silica-supported Ru-Cu catalysts 339
Catalyst deactivation
Catalytic activity of HZSM-5 zeolite in 1-butene conversion. Diffusive reflectance-IR spectroscopic study in a flow system 11
Catalyst design
The effect of catalyst preparation on catalytic activity: II. The design of Ni/Al_2O_3 catalysts prepared by wet impregnation 255
Catalyst preparation
Effect of catalyst preparation on selectivity of high temperature propane oxidation to CO and H_2 3
Catalyst preparation
Carbon black composites as carrier materials for sulphide catalysts 21
Catalyst preparation
Strong metal-support interaction in Ni/TiO_2 catalysts: the origin of TiO_x moieties on the surface of nickel particles 33
Catalyst preparation
Reaction of carbon supports with ammonia. Effect on molybdenum-carbon interaction 91
Catalyst preparation
Enantioselectivity of tartaric acid-modified $Ni-Al_2O_3$ catalysts 141
Catalyst preparation
Systematic preparation of supported Rh catalysts having desired metal particle size by using silica supports with controlled pore structure 177
Catalyst preparation
Gas-phase acetoxylation of 1,3-butadiene over palladium catalysts. Part 3: Effects of addition of alkali metal salts to Pd-Sb-V catalyst and catalytic properties of Pd-Sb-V-CsCl-KOAc catalyst 203
Catalyst preparation
Development of a wetproofed catalyst recombiner for removal of airborne tritium 215
Catalyst preparation
The effect of catalyst preparation on catalytic activity: I. The catalytic activity of Ni/Al_2O_3 catalysts prepared by wet impregnation 239
Catalyst preparation
The effect of catalyst preparation on catalytic activity: II. The design of Ni/Al_2O_3 catalysts prepared by wet impregnation 255
Catalyst preparation
Solid electrolyte potentiometry study of butene oxidation over vanadium phosphate catalysts 277
Catalyst preparation
The catalytic hydrogenation of benzene over supported metal catalysts. III. Gas-phase hydrogenation of benzene over silica-supported Ru-Cu catalysts 339
Cation-exchange resin
Etherification of isoamylenes with methanol 313
Cobalt molybdenum sulphide
Characterization of metal sulfide Fischer-Tropsch catalysts by temperature programmed desorption 99
Cobalt-molybdenum/carbon
Reaction of carbon supports with ammonia. Effect on molybdenum-carbon interaction 91
Cobalt-nickel/silica
Hydrogenation of carbon monoxide over SiO_2-supported Fe-Co,

Co-Ni and Ni-Fe bimetallic catalysts 225
Coke formation
Catalytic activity of HZSM-5 zeolite in 1-butene conversion. Diffusive reflectance-IR spectroscopic study in a flow system 11
Coke formation
Hydrocarbon adsorption and coke formation on Pt/Al_2O_3 and $Pt-Sn/Al_2O_3$ catalysts 69
Coke formation
Gas-phase acetoxylation of 1,3-butadiene over palladium catalysts. Part 3: Effects of addition of alkali metal salts to Pd-Sb-V catalyst and catalytic properties of Pd-Sb-V-CsCl-KOAc catalyst 203
Continuous flow fixed bed reactor
The catalytic hydrogenation of benzene over supported metal catalysts. III. Gas-phase hydrogenation of benzene over silica-supported Ru-Cu catalysts 339
Copper oxide - zirconium oxide
Methanol synthesis from CO_2 + H_2. II. Copper-based binary and ternary catalysts 57
Copper/alumina
Copper catalyzed amination of 1,6-hexanediol 167
Copper/oxides
Supported copper catalysts in the synthesis of methanol: N_2O-titrations 353
Copper/zinc oxide-alumina
Mechanism of methanol synthesis from $CO_2/CO/H_2$ mixtures over copper/zinc oxide/ alumina catalysts: use of ^{14}C-labelled reactants 333
Diffusive-reflectance IR spectroscopy
Catalytic activity of HZSM-5 zeolite in 1-butene conversion. Diffusive reflectance-IR spectroscopic study in a flow system 11
Disproportionation
Effect of thermal treatments on shape selectivity and acidity of ZSM-5 type zeolite catalysts 159
Electron spin resonance spectro-spectroscopy
Vanadyl tetraphenyl porphyrin adsorption on oxides and on Mo/Al_2O_3 catalysts: an ESR study 265
Enantioselectivity
Enantioselectivity of tartaric acid-modified $Ni-Al_2O_3$ catalysts 141
Etherification
Etherification of isoamylenes with methanol 313
Ethylene oxidation
Stability of Pd-C phase in the oxidation of ethylene over palladium catalysts 131
Fischer-Tropsch synthesis
Characterization of metal sulfide Fischer-Tropsch catalysts by temperature programmed desorption 99
Gasoil hydrodesulphurization
Changes induced by calcination temperature in hydrodesulfurization activity of $NiCo-Mo/Al_2O_3$ catalysts 185
Hexanediol amination
Copper catalyzed amination of 1,6-hexanediol 167
Hydrocarbon adsorption
Hydrocarbon adsorption and coke formation on Pt/Al_2O_3 and $Pt-Sn/Al_2O_3$ catalysts 69
Hydrodemetalation
Vanadyl tetraphenyl porphyrin adsorption on oxides and on Mo/Al_2O_3 catalysts: an ESR study 265
Hydrodenitrogenation
Hydrodenitrogenation of 7,8-benzoquinoline over nickel molybdenum alumina 371
Hydrodesulphurization
Carbon black composites as carrier materials for sulphide catalysts 21
Hydrodesulphurization
Reaction of carbon supports with ammonia. Effect on molybdenum-carbon interaction 91
Hydrodesulphurization
Changes induced by calcination temperature in hydrodesulfurization activity of $NiCo-Mo/Al_2O_3$ catalysts 185
Hydrogen adsorption
Strong metal-support interaction in Ni/TiO_2 catalysts: the origin of TiO_x moieties on the surface of nickel particles 33
Hydrogen adsorption
Adsorption and spillover of

hydrogen on Al_2O_3 and Pt/Al_2O_3 81
Hydrogen spillover
Adsorption and spillover of hydrogen on Al_2O_3 and Pt/Al_2O_3 81
Hydrogen-oxygen recombination
Development of a wetproofed catalyst recombiner for removal of airborne tritium 215
Hydrogenation
Methanol synthesis from CO_2 + H_2. II. Copper-based binary and ternary catalysts 57
Hydrogenation
Characterization of metal sulfide Fischer-Tropsch catalysts by temperature programmed desorption 99
Hydrogenation
Enantioselectivity of tartaric acid-modified Ni-Al_2O_3 catalysts 141
Hydrogenation
The methanation reaction on a nickel catalyst: CO, H_2 competition for dissociated oxygen 151
Hydrogenation
Hydrogenation of carbon monoxide over SiO_2-supported Fe-Co, Co-Ni and Ni-Fe bimetallic catalysts 225
Hydrogenation
The effect of catalyst preparation on catalytic activity: I. The catalytic activity of Ni/Al_2O_3 catalysts prepared by wet impregnation 239
Hydrogenation
The effect of catalyst preparation on catalytic activity: II. The design of Ni/Al_2O_3 catalysts prepared by wet impregnation 255
Hydrogenation
The characterisation of unsupported iron and manganese-promoted iron catalysts by X-ray photoelectron spectroscopy and temperature-programmed reduction 303
Hydrogenation
The catalytic hydrogenation of benzene over supported metal catalysts. III. Gas-phase hydrogenation of benzene over silica-supported Ru-Cu catalysts 339
Iron
The characterisation of unsupported iron and manganese-promoted iron catalysts by X-ray photoelectron spectroscopy and temperature-programmed reduction 303
Iron-cobalt/silica
Hydrogenation of carbon monoxide over SiO_2-supported Fe-Co, Co-Ni and Ni-Fe bimetallic catalysts 225
Iron-manganese oxide
The characterisation of unsupported iron and manganese-promoted iron catalysts by X-ray photoelectron spectroscopy and temperature-programmed reduction 303
Isoamylene etherification
Etherification of isoamylenes with methanol 313
Isomerization
Effect of thermal treatments on shape selectivity and acidity of ZSM-5 type zeolite catalysts 159
Kinetics
Methane formation from methanol on Ni/SiO_2, Ni/Al_2O_3 and Ni/TiO_2 catalysts 47
Kinetics
The methanation reaction on a nickel catalyst: CO, H_2 competition for dissociated oxygen 151
Kinetics
Development of a wetproofed catalyst recombiner for removal of airborne tritium 215
Kinetics
Solid electrolyte potentiometry study of butene oxidation over vanadium phosphate catalysts 277
Kinetics
Etherification of isoamylenes with methanol 313
Kinetics
Mechanism of methanol synthesis from $CO_2/CO/H_2$ mixtures over copper/zinc oxide/ alumina catalysts: use of ^{14}C-labelled reactants 333
Kinetics
The catalytic hydrogenation of benzene over supported metal

catalysts. III. Gas-phase hydrogenation of benzene over silica-supported Ru-Cu catalysts 339
Magnesium oxide
Vanadyl tetraphenyl porphyrin adsorption on oxides and on Mo/Al_2O_3 catalysts: an ESR study 265
Metal-support interaction
Strong metal-support interaction in Ni/TiO_2 catalysts: the origin of TiO_x moieties on the surface of nickel particles 33
Methanation
The methanation reaction on a nickel catalyst: CO, H_2 competition for dissociated oxygen 151
Methanol conversion
The effect of adding water to the feed on the transformation of methanol into hydrocarbons on an amorphous silica-alumina catalyst 325
Methanol decomposition
Methane formation from methanol on Ni/SiO_2, Ni/Al_2O_3 and Ni/TiO_2 catalysts 47
Methanol synthesis
Methanol synthesis from CO_2 + H_2. II. Copper-based binary and ternary catalysts 57
Methanol synthesis
Mechanism of methanol synthesis from $CO_2/CO/H_2$ mixtures over copper/zinc oxide/ alumina catalysts: use of ^{14}C-labelled reactants 333
Methanol synthesis
Supported copper catalysts in the synthesis of methanol: N_2O-titrations 353
Methyl acetoacetate hydrogenation
Enantioselectivity of tartaric acid-modified $Ni-Al_2O_3$ catalysts 141
Molybdenum disulphide/carbon black composite
Carbon black composites as carrier materials for sulphide catalysts 21
Molybdenum sulphide
Characterization of metal sulfide Fischer-Tropsch catalysts by temperature programmed desorption 99
Molybdenum/alumina
Vanadyl tetraphenyl porphyrin adsorption on oxides and on Mo/Al_2O_3 catalysts: an ESR study 265
Nickel
The methanation reaction on a nickel catalyst: CO, H_2 competition for dissociated oxygen 151
Nickel-cobalt-molybdenum/alumina
Changes induced by calcination temperature in hydrodesulfurization activity of $NiCo-Mo/Al_2O_3$ catalysts 185
Nickel-iron/silica
Hydrogenation of carbon monoxide over SiO_2-supported Fe-Co, Co-Ni and Ni-Fe bimetallic catalysts 225
Nickel-molybdenum/alumina
Hydrodenitrogenation of 7,8-benzoquinoline over nickel molybdenum alumina 371
Nickel/alumina
Methane formation from methanol on Ni/SiO_2, Ni/Al_2O_3 and Ni/TiO_2 catalysts 47
Nickel/alumina
Enantioselectivity of tartaric acid-modified $Ni-Al_2O_3$ catalysts 141
Nickel/alumina
The effect of catalyst preparation on catalytic activity: I. The catalytic activity of Ni/Al_2O_3 catalysts prepared by wet impregnation 239
Nickel/alumina
The effect of catalyst preparation on catalytic activity: II. The design of Ni/Al_2O_3 catalysts prepared by wet impregnation 255
Nickel/porous mullite
Effect of catalyst preparation on selectivity of high temperature propane oxidation to CO and H_2 3
Nickel/silica
Methane formation from methanol on Ni/SiO_2, Ni/Al_2O_3 and Ni/TiO_2 catalysts 47
Nickel/titania
Strong metal-support interaction in Ni/TiO_2 catalysts: the origin of TiO_x moieties on the surface of nickel particles 33
Nickel/titania
Methane formation from methanol on Ni/SiO_2, Ni/Al_2O_3 and Ni/TiO_2 catalysts 47

Nitric oxide adsorption
Reaction of carbon supports with ammonia. Effect on molybdenum-carbon interaction 91
Nitrous oxide titration
Supported copper catalysts in the synthesis of methanol: N_2O-titrations 353
Oxidation
Effect of catalyst preparation on selectivity of high temperature propane oxidation to CO and H_2 3
Oxidation
Stability of Pd-C phase in the oxidation of ethylene over palladium catalysts 131
Oxidation
Solid electrolyte potentiometry study of butene oxidation over vanadium phosphate catalysts 277
Palladium-antimony-vanadium
Gas-phase acetoxylation of 1,3-butadiene over palladium catalysts. Part 3: Effects of addition of alkali metal salts to Pd-Sb-V catalyst and catalytic properties of Pd-Sb-V-CsCl-KOAc catalyst 203
Palladium/carbon
Stability of Pd-C phase in the oxidation of ethylene over palladium catalysts 131
Platinum-tin/alumina
Hydrocarbon adsorption and coke formation on Pt/Al_2O_3 and $Pt-Sn/Al_2O_3$ catalysts 69
Platinum/alumina
Hydrocarbon adsorption and coke formation on Pt/Al_2O_3 and $Pt-Sn/Al_2O_3$ catalysts 69
Platinum/alumina
Adsorption and spillover of hydrogen on Al_2O_3 and Pt/Al_2O_3 81
Platinum/carbon
Development of a wetproofed catalyst recombiner for removal of airborne tritium 215
Platinum/silica
Development of a wetproofed catalyst recombiner for removal of airborne tritium 215
Propane oxidation
Effect of catalyst preparation on selectivity of high temperature propane oxidation to CO and H_2 3
Raney nickel
Raney nickel as a selective catalyst for aldehyde reduction in the presence of ketones 181
Reaction mechanism
Mechanism of methanol synthesis from $CO_2/CO/H_2$ mixtures over copper/zinc oxide/ alumina catalysts: use of ^{14}C-labelled reactants 333
Reaction mechanism
The effect of structure on reactivity in zeolite catalyzed acylation of aromatic compounds: a $\rho - \sigma^+$ relationship 365
Reaction mechanism
Hydrodenitrogenation of 7,8-benzoquinoline over nickel molybdenum alumina 371
Reduction
Raney nickel as a selective catalyst for aldehyde reduction in the presence of ketones 181
Rhodium/silica
Systematic preparation of supported Rh catalysts having desired metal particle size by using silica supports with controlled pore structure 177
Ruthenium-copper/silica
The catalytic hydrogenation of benzene over supported metal catalysts. III. Gas-phase hydrogenation of benzene over silica-supported Ru-Cu catalysts 339
Selectivity
Effect of catalyst preparation on selectivity of high temperature propane oxidation to CO and H_2 3
Selectivity
Methanol synthesis from CO_2 + H_2. II. Copper-based binary and ternary catalysts 57
Selectivity
Characterization of metal sulfide Fischer-Tropsch catalysts by temperature programmed desorption 99
Selectivity
Enantioselectivity of tartaric acid-modified $Ni-Al_2O_3$ catalysts 141
Selectivity
The methanation reaction on a nickel catalyst: CO, H_2 competition for dissociated oxygen 151
Selectivity
Effect of thermal treatments on shape selectivity and acidity of ZSM-5 type zeolite catalysts 159

Selectivity
Copper catalyzed amination of 1,6-hexanediol 167
Selectivity
Raney nickel as a selective catalyst for aldehyde reduction in the presence of ketones 181
Selectivity
Gas-phase acetoxylation of 1,3-butadiene over palladium catalysts. Part 3: Effects of addition of alkali metal salts to Pd-Sb-V catalyst and catalytic properties of Pd-Sb-V-CsCl-KOAc catalyst 203
Selectivity
Hydrogenation of carbon monoxide over SiO_2-supported Fe-Co, Co-Ni and Ni-Fe bimetallic catalysts 225
Selectivity
The effect of catalyst preparation on catalytic activity: I. The catalytic activity of Ni/Al_2O_3 catalysts prepared by wet impregnation 239
Selectivity
The effect of catalyst preparation on catalytic activity: II. The design of Ni/Al_2O_3 catalysts prepared by wet impregnation 255
Selectivity
Solid electrolyte potentiometry study of butene oxidation over vanadium phosphate catalysts 277
Selectivity
The characterisation of unsupported iron and manganese-promoted iron catalysts by X-ray photoelectron spectroscopy and temperature-programmed reduction 303
Selectivity
Etherification of isoamylenes with methanol 313
Selectivity
The effect of adding water to the feed on the transformation of methanol into hydrocarbons on an amorphous silica-alumina catalyst 325
Selectivity
Mechanism of methanol synthesis from $CO_2/CO/H_2$ mixtures over copper/zinc oxide/ alumina catalysts: use of ^{14}C-labelled reactants 333
Silica-alumina
Vanadyl tetraphenyl porphyrin adsorption on oxides and on Mo/Al_2O_3 catalysts: an ESR study 265
Silica-alumina
The effect of adding water to the feed on the transformation of methanol into hydrocarbons on an amorphous silica-alumina catalyst 325
Sintering
Characterization of metal sulfide Fischer-Tropsch catalysts by temperature programmed desorption 99
Solid electrolyte potentiometry
Solid electrolyte potentiometry study of butene oxidation over vanadium phosphate catalysts 277
Stability
The catalytic hydrogenation of benzene over supported metal catalysts. III. Gas-phase hydrogenation of benzene over silica-supported Ru-Cu catalysts 339
Surface area determination
Determination of surface areas by thermoporometry 123
Temperature programmed desorption
Reaction of carbon supports with ammonia. Effect on molybdenum-carbon interaction 91
Temperature programmed desorption
Characterization of metal sulfide Fischer-Tropsch catalysts by temperature programmed desorption 99
Temperature programmed desorption
Hydrogenation of carbon monoxide over SiO_2-supported Fe-Co, Co-Ni and Ni-Fe bimetallic catalysts 225
Temperature programmed desorption
The effect of catalyst preparation on catalytic activity: I. The catalytic activity of Ni/Al_2O_3 catalysts prepared by wet impregnation 239
Temperature programmed desorption
The effect of catalyst preparation on catalytic activity: II. The design of Ni/Al_2O_3 catalysts prepared by wet impregnation 255
Temperature programmed reduction
The effect of catalyst preparation on catalytic activity: I. The catalytic

activity of Ni/Al_2O_3 catalysts prepared by wet impregnation 239
Temperature programmed reduction
The effect of catalyst preparation on catalytic activity: II. The design of Ni/Al_2O_3 catalysts prepared by wet impregnation 255
Temperature programmed reduction
The characterisation of unsupported iron and manganese-promoted iron catalysts by X-ray photoelectron spectroscopy and temperature-programmed reduction 303
Temperature programmed synthesis
The methanation reaction on a nickel catalyst: CO, H_2 competition for dissociated oxygen 151
Thermogravimetric analysis
Catalytic activity of HZSM-5 zeolite in 1-butene conversion. Diffusive reflectance-IR spectroscopic study in a flow system 11
Thermogravimetric analysis
Enantioselectivity of tartaric acid-modified $Ni-Al_2O_3$ catalysts 141
Thermoporometry
Determination of surface areas by thermoporometry 123
Thiophene hydrodesulphurization
Carbon black composites as carrier materials for sulphide catalysts 21
Toluene disproportionation
Effect of thermal treatments on shape selectivity and acidity of ZSM-5 type zeolite catalysts 159
Total carbon deposition
The effect of catalyst preparation on catalytic activity: I. The catalytic activity of Ni/Al_2O_3 catalysts prepared by wet impregnation 239
Total carbon deposition
The effect of catalyst preparation on catalytic activity: II. The design of Ni/Al_2O_3 catalysts prepared by wet impregnation 255
Transmission electron microscopy
Systematic preparation of supported Rh catalysts having desired metal particle size by using silica supports with controlled pore structure 177
Vanadium phosphate
Solid electrolyte potentiometry study of butene oxidation over vanadium phosphate catalysts 277
Vanadyl-tetraphenylporphyrin
Vanadyl tetraphenyl porphyrin adsorption on oxides and on Mo/Al_2O_3 catalysts: an ESR study 265
Water addition
The effect of adding water to the feed on the transformation of methanol into hydrocarbons on an amorphous silica-alumina catalyst 325
Water-gas shift
Mechanism of methanol synthesis from $CO_2/CO/H_2$ mixtures over copper/zinc oxide/ alumina catalysts: use of ^{14}C-labelled reactants 333
Wetproofed catalyst recombiner
Development of a wetproofed catalyst recombiner for removal of airborne tritium 215
X-ray diffraction
Systematic preparation of supported Rh catalysts having desired metal particle size by using silica supports with controlled pore structure 177
X-ray photoelectron spectroscopy
The characterisation of unsupported iron and manganese-promoted iron catalysts by X-ray photoelectron spectroscopy and temperature-programmed reduction 303
Xylene isomerization
Effect of thermal treatments on shape selectivity and acidity of ZSM-5 type zeolite catalysts 159
Zeolites
Catalytic activity of HZSM-5 zeolite in 1-butene conversion. Diffusive reflectance-IR spectroscopic study in a flow system 11
Zeolites
Effect of thermal treatments on shape selectivity and acidity of ZSM-5 type zeolite catalysts 159
Zeolites
The effect of structure on reactivity in zeolite catalyzed acylation of aromatic compounds: a $\rho - \sigma^+$ relationship 365